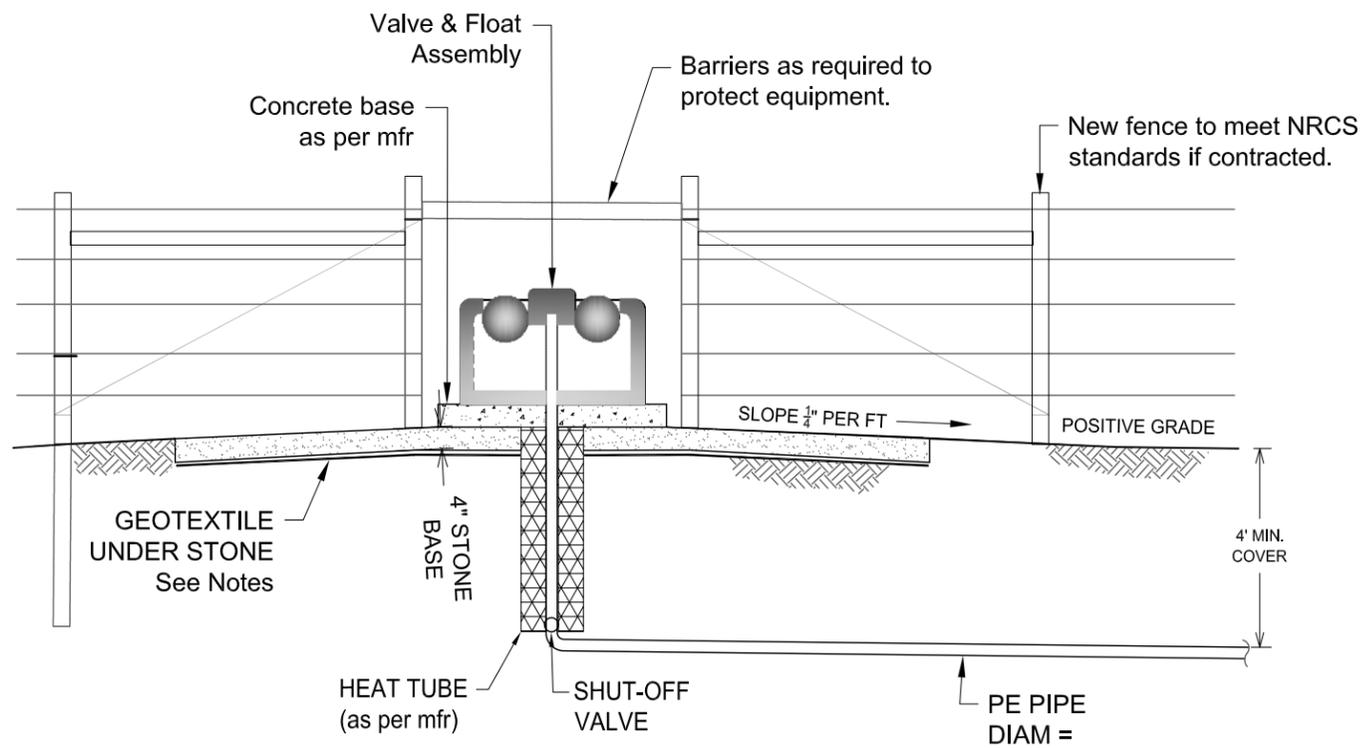


**PERMANENT WATERER
PLAN VIEW**

NTS



**PERMANENT WATERER
TYPICAL SECTION**

NTS

PERMANENT WATERER NOTES:

1. Waterer is to be frost-free to provide year-round use. Specific make and model as per landowner.
2. The waterer is to be installed as pre the manufacturer including anchorage to the concrete pad, insulation of the pipeline, plumbing hook-ups, and other appurtenances.
3. A float & valve assembly to control the water level is required.
4. Energy-free waterers with two balls or more require a valve that delivers 2 gpm per ball at the available pressure. Typically a 3/4" valve will be needed.
5. Tracer wire may be installed over the pipeline.
6. See the trench details for pipe specifications and backfill requirements.
7. A backflow prevention valve is required between the domestic water supply or well and the first waterer.

STONE PAD NOTES:

1. Stone for the pad shall be 3/4" quarried material with stone dust or enough fines to permit compaction and provide comfortable livestock footing. If clean stone is used, a surface layer of compacted stone dust is recommended.
2. Geotextile under the stone is to be a non-woven material with a tensile strength of 120 psi and a puncture resistance of 60 lbs.

Designed _____
 Drawn _____
 Checked _____
 Approved _____



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